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a tube support member [having first and second surfaces through which extend openings for] receiving [said] open ends of said plurality of tubes[, said open ends of said tubes appearing at said second surface];

a first electrically conductive coating covering said exterior surfaces of said plurality of tubes [and said first surface of said tube support member forming a first electrode connectable to a source of electrical potential of a first polarity];

a second electrically conductive coating covering said interior surfaces of said plurality of tubes [and said second surface of said tube support member forming a second electrode connectable to a source of electric potential of a second polarity,],; and

[means forming a manifold for collecting gasses appearing at said open ends of said tubes and said second surface of said tube support member.]

ionically conductive
said first ceramic element having at least two columns and a first electrode covering an exterior surface of said first column and an interior surface of said second column of tubes and a second electrode covering an exterior surface of said second column of tubes and an interior surface of said first column of tubes;

said first electrode being connectable to a source of electrical potential at a first polarity and said second electrode being connectable to a source of electrical potential at a second polarity.

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8. (Amended) The ceramic element [oxygen generator] described in claim ¹ ~~1~~ wherein said plurality of tubes are formed into rows and columns on said tube support member [with portions of said first and second surfaces interposed between the rows and columns and further comprising:

means forming an electrical surface from said first and second electrodes] wherein each tube is connected to said first electrode and said second electrode and first and second electrode portions of each of said tubes in a column are electrically connected in parallel and wherein each of the tubes forming a row are electrically connected in series.

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8. (Amended) The ceramic element [oxygen generator] described in claim ² ~~8~~ wherein first and second electrodes are formed by [means forming an electrical circuit comprises:]

cuts [formed] in said first and second electrically conductive coatings [electrodes] between said columns of tubes, said cuts extending longitudinally of and between the columns of tubes so that the portions of said first and second electrodes on opposite sides of each said cut are electrically separated, vias extended through said first and second surfaces adjacent each of said tubes and

electrical connections extending through said vias connecting a first electrode portion of each said tube in a row to a second

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(3)
connected
~~7~~ electrode portion of a tube in an adjacent column in the same row to form a series connection across each row of tubes.

7. Line 1, change "oxygen generator" to --element--.

Please add the following new claims:

~~- 8. 5~~ The ceramic element described in claim ~~4~~, wherein each plurality of tubes is spaced from adjacent tubes.--

~~6~~
7. An oxygen generator, comprising:

a first ceramic element having a tube support member and an array of tube members extending from said tube support member and formed into columns and rows;

a second ceramic element adjacent said first ceramic element; and

a seal between said first ceramic element and said second ceramic element;

said first ceramic element having at least two columns and a first electrode covering an exterior surface of said first column and an interior surface of said second column of tubes and a second electrode covering an exterior surface of said second column of tubes and an interior surface of said first column of tubes;

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said first electrode being connectable to a source of electrical potential at a first polarity and said second electrode being connectable to a source of electrical potential at a second polarity.--

b2
--⁷₁₀. The oxygen generator of claim ⁸₈, wherein said first ceramic element includes a first electrically conductive coating covering exterior surfaces of each of said plurality of tube members; and

wherein said first ceramic element includes a second electrically conductive coating covering interior surfaces of said plurality of tube members.--

b2
--⁸₁₁. The oxygen generator of claim ⁸₈, wherein said first ceramic element is integrally formed.--

b2
--⁹₁₂. An electrochemical element, comprising:
a ceramic element having a tube support member and an array of tube members extending from said tube support member;

wherein said tube support member and said array of tube members are formed from ceramic.--

b2
--¹⁰₁₃. The electrochemical element of claim ¹²₁₂, wherein said ceramic element is an electrolyte.--